## EXHIBIT 6

Deposition	Plaintiffs'	Defendants'	Reason that Defendants'
_ P	Designation	Corresponding	Counter Designation Must
'	8	Counter	be Considered According
·		Designation	to Fed.R.Civ.P 32(a)(4)
Steve Fuller,	67:8-18, 67:21-	50:22-51:11	Both Plaintiffs' and
June 21,	68:22, 68:24-25		Defendants' designations
2005	,		deal with questions asked of
			Fuller regarding what he
			thinks intelligent design is
	58:14-15, 59:6-	56:11-57:23	Both Defendants' and
	60:7, 167:8-		Plaintiffs' designations
	169:11		address different intelligent
			design theories, such as
			irreducible complexity and
			Dembski's explanatory filter
	67:8-68:25,	90:13-92:4	Both Defendants' and
	153:5-6, 8-10, 21-		Plaintiffs' designations deal
	22, 156:2-157:2		with questions posed to
		-	Fuller regarding similarities
			and differences between
			creationism and intelligent
			design
	67:8-68:25	146:6-146:20	Both Defendants' and
			Plaintiffs' designations
			point to questions asked of
			Fuller about whether
			intelligent design theory is a
			form of creationism
	140:17-141:10,	147:8-19	Defendants' designation
	154:7-11		talks about intelligent design
			in terms of conceptual space
			(the way that science moves
			forward) and whether is it
			religious and/or religiously
			inspired, and Plaintiffs'
			related designations refer to
			the future and openness of
			science and the religious
			motivation of intelligent
			design theorists

	15001550	157.2 14	Defendants' designation is
	156:2-157:2	157:3-14	the immediate continuation
			1
			of Plaintiffs', both in
			location and subject matter
			(Fuller's perspective on
	·		scientific concerns about
·			arguments made by Dr.
			Meyers)
	167:8-169:10,	170:10-171:2	Defendants' designation is
	170:1-9		the immediate continuation
	1,011		of Plaintiffs', both in
			location and subject matter
			(logical scientific
			conclusions and elimination
			of hypotheses)
	167:8-169:11,	171:24-173:15	Defendants' designation
	170:1-9	1/1.27-1/3.13	follows Plaintiffs' and deals
	170.1-9		with the same question that
			Plaintiffs' designation
			begins with—in both
			instances Fuller is being
			asked about the "best
			explanation" for intelligent
			design
	58:14-15, 59:6-	186:16-188:9	Defendants' designation
	60:7,		addresses the subject of the
	167:8-169:11		explanatory framework of
			intelligent design, including
			the explanatory filter and
			irreducible complexity, a
			subject raised by Plaintiffs
			in their designations
	140:14-141:10,	216:15-217:7	In Plaintiffs' designation,
	141:12-142:10		Fuller is asked the question
			of why intelligent design
			should be taught to ninth
			graders, and Defendants'
			designation addresses that
			precise question.

1	Case 4:04-cv-02688-JFJ <sub>T</sub> Ppocym <u>ent 253-DAFile</u> d <u>10/11/05</u> TPage 11/06 18			
2	FOR THE MIDDLE DISTRICT OF PENNSYLVANIA			
3	TAMMY KITZMILLER; BRYAN AND			
J .	CHRISTY REHM; DEBORAH FENIMORE			
4	AND JOEL LIEB; STEVEN STOUGH;			
	BETH EVELAND; CYNTHIA SNEATH;			
5	JULIE SMITH; AND ARALENE ("BARRIE")			
	D. AND FREDERICK B. CALLAHAN,			
6				
	Plaintiffs,			
7	Civil Action No.:			
	v.			
8	04-CV-2688 (M.D. Pa.)			
	DOVER AREA SCHOOL DISTRICT;			
9	DOVER AREA SCHOOL DISTRICT BOARD			
	OF DIRECTORS,			
10				
	Defendants.			
11	/			
12	DEPONENT: STEVE WILLIAM FULLER, PH.D.			
13	DATE: Tuesday, June 21, 2005			
14	TIME: 9:35 a.m.			
15	LOCATION: 24 Frank Lloyd Wright Drive			
16	Ann Arbor, Michigan			
17	APPEARANCES:			
18	For the Plaintiffs:			
19	MR. ERIC ROTHSCHILD			
	Pepper Hamilton, LLP			
20	3000 Two Logan Square, 18th and Arch Streets			
	Philadelphia, Pennsylvania 19130-2799			
21	(215) 981-4000			
22	For the Defendants:			
23	MR. PATRICK T. GILLEN (P47456)			
	Thomas More Law Center			
24	3475 Plymouth Road, Suite 100			
	Ann Arbor, Michigan 48105			
25	(734) 827-2001			

## Filed 10/11/05 Page 5 of 18 of the idea, because I think we have no problem with Case are 074 tens 1226 to 1 E gluc thing cument 253-8 Intelligent Design with regard to artifacts. 3 3 O What have you taught? 4 O And why do you say that? Well. I've taught a cross-listed class at UCLA between A Because humans are the intelligents who are designing the library and information science and education. 5 5 things. I mean, we know where it comes from. We actually And what was the subject matter of that class? 6 6 It was on my own -- my own work on social epistemology which 7 know the causal process in terms of how these things are produced. 8 has some credibility in these areas. 8 9 Q And how do you understand we come to that knowledge with Do you consider yourself an expert in Intelligent Design? 9 An expert in Intelligent Design. No. 10 artifacts? 10 A How do we come to that knowledge? Well, largely because we 11 0 Okav. 11 12 could do it ourselves. Right. We can actually produce A I'm an expert on the nature of science. 12 these -- we can say -- I can say, look, I'm going to design a 13 O Gotcha. Okay. Do you consider -- do you consider 13 14 car. I'm doing it, it's done. Here's the car. And you can yourself -- you said that Intelligent Design is science. I 14 15 sort of lay out the steps by which it happens. You can talk think -- I think we can agree, you're basically saying it's 15 about the general blueprint, how the blueprint's supplied 16 science but not as far along as some of the other natural 16 17 materially to make the thing run and then it works. And so 17 sciences? you have a complete sense of that causal process there. And A Yes. 18 18 19 so that's the kind of paradigm case I would say of O Okay. Do you consider yourself an expert on the scientific 19 20 Intelligent Design. content of Intelligent Design? 20 21 O And am I correct in understanding your testimony from a 21 A I'm not sure what you mean by that. 22 couple minutes ago that that kind of design inference, so to Q Well, let me ask you, let me ask you, what is Intelligent 22 23 speak, is the model for the design inference being used for 23 Design? 24 biological life? 24 What is Intelligent Design? Well, it's an attempt to explain actually a vast array of phenomena, not just restricted to 25 A Yeah, I would say so. I would say that's ultimately what's 25 53 51 the origins of life, in terms of some kind of design that was 1 being aimed at. Yes. 1 put there deliberately. Now, the scope of the theory -- the 2 O Here's what I don't understand. And maybe you can help clear 2 3 this up for me. You explained how we understand design of scope of this science is potentially quite large. In that 3 4 human artifacts from the -- and you said, you know, we can respect, it's very much like information science, that in a 5 understand it because we can do it, right? How does that 5 way, doesn't have to be restricted to a single domain. So 6 it's just not about life. It could be about anything that provide a model for design of biological life? 6 7 A Well. I think the best way to think about this is in fact displays this design pattern because machines, obviously, 7 have Intelligent Design, right, and they're not forms of 8 with what -- imagine computer simulations which, you know, 8 9 are increasingly in the biological sciences when we're trying life. So it is -- in a way, it's kind of almost like a 9 second order science, like information theory attempts to be. 10 to project backward into how life began, where, you know, we 10 have recourse -- we of course have recourse to fossils to a 11 11 I guess that would be how I would pitch it. 12 certain extent. We can get some sense of what life was like You used -- you know, obviously, the word design is in the 12 13 in the beginning that way. And we can do some DNA testing on term Intelligent Design. 13 A Yeah, yeah. 14 that. But increasingly we have to rely on computer 14 15 simulations. And computer simulations are design functions, 15 Q What do you mean by design? 16 right, where you're programming a system to behave in a A Well, it's very unlikely that the order that is produced 16 17 would have come about through -- through chance, right, that 17 certain way, and then you see what the outcomes are. And you 18 say, well, okay, let's say that I imagine that the world was there isn't some sense, some plan there that the order was 18 19 designed with these three or four parameters that interact in 19 meant to be there. I mean, the model for it in an artifact 20 a certain way according to a computer program I can 20 or a machine. Something, obviously, a human has designed. 21 specialize -- specify. Well, that then produced the world as 21 mean, that's -- I mean, in that respect, you know, Paley sets a kind of benchmark for what the image of the -- of what the 22 we know it. Okay. If it does, right, that's a good argument 22 23 for design, it seems to me. If not, you know, back to the 23 science is about. And that's why -- that's the -- sort of 24 drawing board. But the point is we're already doing stuff in the natural way to understand this. And then with all the 24 25 science where we're actually engaged in design like 25 stuff that's going on now with Intelligent Design

common, that itself is not prejudicial, it seems to me.

understand what you understand Intelligent Design to be.

Q I'm not characterizing. I just want to make sure I

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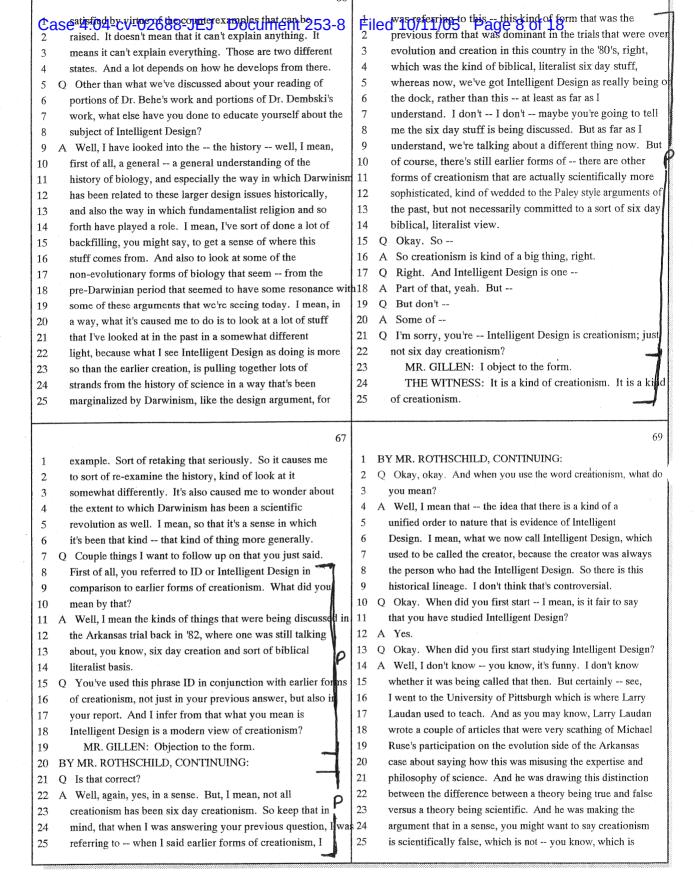
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developed forms.

Q One of the things you say on the first page of your report

my expertise experts to a consideration of ID in its most

Filed LU/LL Baintained that aren't so - that aren't so necessary that it doesn't require any intelligence at all, である。 2 Q Okay. So basically, the two big principles are irreducible but also not so random that you can't see evidence of 3 complexity and the explanatory filter? 4 intelligence either. So it's meant to be kind of a middle 4 Uh-huh. ground. And it's meant to be specified mathematically. And 5 Q That's a yes? 5 6 then it's been sort of discussed in those terms, whether one 6 A Yes, yes. Q Okay. I don't mean to be scolding you. I just want to make 7 Q And do you have an understanding of whether one can do that? sure the record is clear. Do you consider yourself an expert 8 8 A Well, it seems to me that he hasn't done it yet. But he's on the proposition of irreducible complexity? Q A An expert on the proposition? Not an expert on the 10 kind of laid out a very interesting project in this respect 10 in that, first of all, he translates the metaphysical notions proposition, no. No, I don't do research in that area. No. 11 11 12 into mathematically specifiable ones, and he enables then I mean, you know, what I know is what I read of it. So I'm 12 13 people who are adept in these areas to be able to contest not -- I'm not adept in the area. 13 Q Okay. Do you consider yourself an expert in Dembski's worl, 14 whether certain cases that might be counted as design would 14 **1**5 fall into the way he's defined it because of the including the explanatory filter? 15 probabilities that they would be maintained or not. And so A Not -- not -- I mean, maybe I'm not getting what you mean by 16 16 when he gets into these arguments with philosophers, you 17 expert. But it seems to me that the answer would be no. 17 Unless you mean expert in a looser sense. 18 know, about probability theory, right, sometimes they say 18 he's being too strict, sometimes they say he's being too 19 O Well, I mean, I think you've acknowledged, for example, 19 20 loose as to what to count as design. Because remember, we're you're not an expert in paleontology? 20 21 talking about a theory of design that just doesn't cover the 21 A Uh-huh, yes. 22 origins of life, but covers everything that we might think of 22. O Same as me? 23 as being design, including artifacts. And so in a sense, 23 A Yes. it's fair game in terms of the kinds of examples that might 24 And I'm trying to understand, you know, paleontology, you 24 25 be considred relevant for falling under this filter. would agree, is a discipline that at least in part is 25 61 59 And so he gets a lot of counterexamples that seem to 1 considered in the area of evolution? 1 2 sort of, in a way, not quite fit what he's trying to do. And 2 A Yes. Q Okay. So now I'm looking at Intelligent Design, and you've 3 he's had to -- he has to kind of respond to that. So I 3 4 wouldn't say he's -- he has succeeded, but he has kind of -identified a couple of sort of underlining explanatory 5 he hasn't succeeded in the sense of having nailed down the principles and I'm trying to understand sort of parallel to 5 filter. But what he has succeeded in doing, I think, is what you said about paleontology, do you consider yourself an 6 6 7 laying out a research project as to say to identify the 7 expert in irreducible complexity? 8 parameters of this filter, which in principle, should be able A Right, okay. I'm not an expert in that area. That's 8 9 to do. And the way in which people are responding to him correct. 10 critically suggests that it is something that one can work 10 Q Okay. And the same with Dembski's work? 11 with and do something with. A That's correct. 11 Well, I think I'm understanding you to say he hasn't actually Okay. Do you have some familiarity or understanding of wha 12 12 13 applied this explanatory filter to an aspect of biological the explanatory filter is? 13 life and shown that it was intelligently designed; is that 14 A Yes. 14 15 correct? 15 O And what is that? 16 MR. GILLEN: Objection. Well, the explanatory filter is meant to provide a kind of D 16 probabilistic space. I mean, so the key thing -- first move 17 THE WITNESS: But the theory is not that far advanced 17 BY MR. ROTHSCHILD, CONTINUING: 18 that Dembski makes is to translate issues having to do with 18 chance and design and regularity in nature into probability 19 Q Okay. So he has not done that yet? 19 MR. GILLEN: Objection to the form. You can go ahead theory. So he tries to move it out of the metaphysical space 20 20 THE WITNESS: Not that -- no, but I don't think he's 21 into a mathematical space. And then the explanatory filter 21 is going to be this -- this range of possibilities between 22 intending to do that. 22 BY MR. ROTHSCHILD, CONTINUING: 23 regularity, physical regularity on the one hand, and chance 23 Q Okay. And you're not aware of anybody else taking his 24 on the other one which design can operate. So it has to be 24 kind of within a range of probability of certain kinds of 25 explanatory filter and applying it to an aspect of biological 25



in evolutionary theory. And there is stuff that these people

so -- I'm sorry. I don't know if that answers your question.

But I was trying to sort of --

BY MR. ROTHSCHILD, CONTINUING:

have already developed that could be taken, you see. I mean,

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kind of respectful manner, and in fact he says that, you

days could be easily confused with kind of respectable

know, these views that these guys are putting forward these

scientific views. And that's something you wouldn't -- they

wouldn't have said 20 years ago about creation science. You

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Uh-huh. Yes.

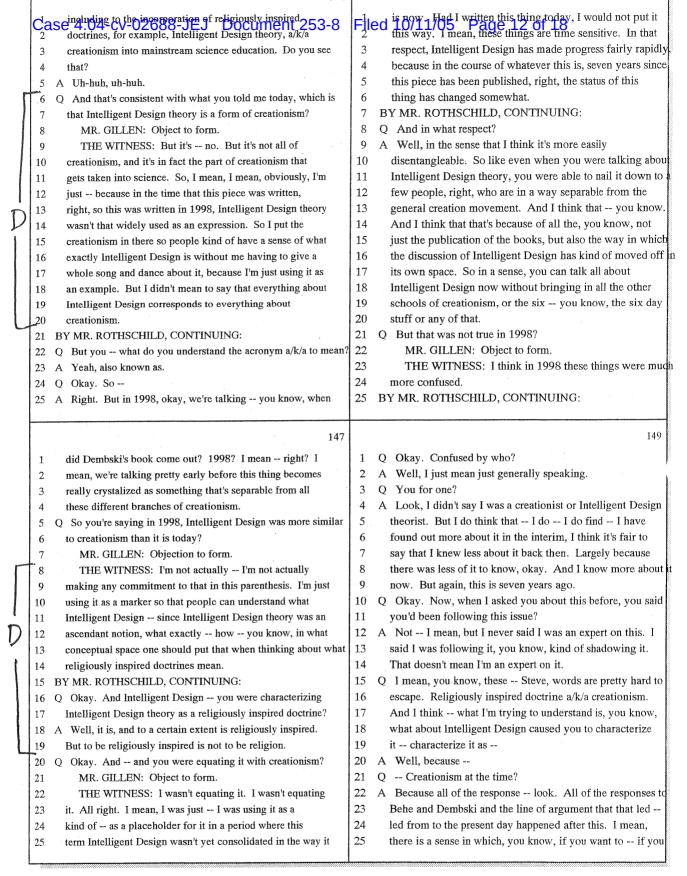
Q How is the objective you just discussed accomplished if

with some ideas, and that it really hasn't moved much beyond

that. It might, but right now it hasn't; is that fair?

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of that kind. We call in scientists actually to sort this 101105 Page 11 of 18 stuff out for us. People are not — the people who are Casetyloga are single being teld here's Intelligent Designs by then they're not allowed to discuss it. 3 governed by these scientifically derived rules are not A I didn't -- well, I'm endorsing this view. I'm not -3 4 normally consulted or involved in the process. And this kind responsible for this view. I don't -- at least as far as I 4 5 of issue starts to become more and more important as people understand, I don't endorse this. 5 perceive that there are more and more scientifically 6 Q Okay. You -- so you -- the Dover policy of simply making 6 students -- of telling students about Intelligent Design but generated threats and hazards in the society. And in a 7 then not allowing them -- allowing the teacher to talk about 8 sense, they want to get involved participating in decision 8 9 making concerning science and so forth. And so in that 9 it doesn't accomplish the objective? A It defeats the purpose, yes. That's true. Yes. 10 sense, they want to behave more like citizens of a nation 10 rather than, you know, being under a monarch, where science 11 MR. ROTHSCHILD: Okay. I'd like to mark as Fuller 11 12 is the monarch in this case. Exhibit 4 -- let's see if I have a stapled version. 12 (Marked for identification Fuller Deposition Exhibit 13 Okay. And, you know, you use the phrase science is the 13 14 monarch. Who's science? 14 No. 4) BY MR. ROTHSCHILD, CONTINUING: 15 Well, I'm talking about like the National Academcy of 15 Science, Right, So we're not talking about all rank and Q Do you recognize the document I've marked as Exhibit 4? 16 17 file scientists, because in fact depending on where you are A Yes, I do. 17 18 institutionally in science, you hold different types of 18 Q And what is that? viewpoints, okay, about how science should be used and so 19 A It is a report I wrote following a global cyberconference l 19 did on public understanding of science, I believe it was 20 forth. But I'm talking about the sort of the people, the 20 21 main disciplinary people. Right. The people who run the 21 1998. Yes. Q Okay. And is this project you're describing in this article 22 professional societies, who run the National Academy of 22 23 Sciences, which tend to keep a kind of monolithic view of sort of representative of the work you do in social 23 24 what science is about. 24 A It's a kind of applied side of it you might say, yes, because 25 Q Are there risky alternatives, and I'll raise one example. 25 145 143 You know, we talked about global warming. And, you know, for it tries to bring different people together and so forth. 1 Q Okay. And if you go to the second page of the document which example, we see in the present American presidental 2 administration that scientists come to gather data and come is page 330 of the article, there's a section entitled 3 3 intellectual motivation for the cyberconference; do you see 4 to conclusions about the state of global warming, and then 4 5 we're led to understand by some quarters that political 5 that? 6 A Yes. considerations, you know, effectively suppress that 6 7 scientific information. I mean, is that -- isn't that the Q Okay. And I take it the point of this conference is to 8 risk of the alternative you're suggesting? discuss public understanding of science? 9 A I mean, I think what you're saying is true. But that doesn't A Yes. Okay. And towards the bottom of the first paragraph of that 10 mean that therefore there's global warming, okay? I mean, I 10 11 think what we do lack is a sort of -- a general and full, section, this concept with the acronym PUS? 11 12 open discussion. So you're right, I'm not going to deny that 12 Α Yes. 13 there has been the supression of scientific information. But 13 O Is --14 just making the scientific information known doesn't A That's public understanding of science. 14 15 necessarily resolve the issue. So there's a sense in which 15 O Yes. Stated can be understood as symptomatic of a crisis in 16 scientific representation, akin to subjects of a monarch who one needs to think about what is the appropriate forum in 16 17 wish to be regarded as citizens of a nation, but have yet to 17 which these different opinions concerning global warming 18 should be articulated and discussed, and then decisions identify an effective political vehicle for its realization. 18 19 taken. I think that's kind of more the issue. It's not like 19 Can you explain what you're trying to convey there? 20 20 A Okay. Well, the idea being that in the modern period at we kind of already know the answer but it's being supressed 21 least, science has had a kind of uni -- sort of unilateral, by politicians. 21 22 22 maybe monolithic authority over, well, political opinion Q And then if you go to the next page, page 331, you have a 23 discussion of American's discussion of PUS --23 and -- and in all kinds of other respects, and in a sense, is 24 Uh-huh. supposed to stand for all of society in terms of, you know, 24 25 for example, providing food, health, safety standards, things 25 -- having been more open to matters, being more open



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Case-4:04you/ad/16668tidEvlat didoct11969t 1153-8	Filed Obolous VO5 vas Rague to Bright about Intelligent Design
2 Intelligent Design is making this transition from metaphysics	2 back then.
3 to science, the fact that, you know, I would never write a	3 Q So I take it you had some familiarity with Intelligent Desig
4 statement like that today because things have changed in the	4 at the time you wrote the article?
5 seven years. Okay. And I didn't say you know. I mean,	5 A I guess so, yes.
and maybe I did an injustice to Intelligent Design theory	6 Q And if you flip to page 536, the second full paragraph you
back in 1998 because I hadn't you know, I hadn't read	7 talk about the idea that creationism has inherited Lamarck's
8 Behe's book which was already out. I mean, that's entirely	8 charge may seem strange until we consider particular article
9 possible. That may well be true.	9 in this volume, and you refer to Stephen Meyer and Michae
10 Q Going to the to the back of the document, the second to	Behe's article. So, I mean, I guess the first thing to
the last page third to the last page, sorry, 339.	11 clarify is, I'm a little confused about sort of the timing
12 A Uh-huh.	12 here.
13 Q You have an appendix that lists titles of opening statements.	13 A Were they in the original journal article, you're asking?
And one of them is telling the difference between science and	14 Q Yes.
religion. Do you have a recollection of what that was about?	15 A I think they were because I don't I don't actually recall
16 A Okay. One thing to point out is that these statements,	16 substantially revising this.
because I've done two global cyberconferences. In the first	17 Q Okay. So you were, in this article written in 1998,
one, I did not write I mean, write the opening statements.	referring to articles by Dr. Meyer and Professor Behe about
19 I did that in the second one. So I'm not sure who wrote this	Intelligent Design that you believe were also written in 199
20 first opening statement. It may have been John Angus	20 or sooner?
21 Campbell, it may have been him. I mean, that is one	21 A That's right, yes, because there was a special issue of that
22 possibility.	journal that was basically the launch pad for the volume.
23 Q Okay. Speaking of John Angus Campbell, you had an essay or	
24 article that was published in the book he and Stephen Meyer	24 Lamarck's charge may seem strange until we consider
25 edited called Darwinism, Design and Public Education?	25 particular articles in this volume, and then you refer to
151	153
1 A Yes.	those two articles. And I'm interpreting that to be labeling
2 Q Okay. And that book was I think it published in 2003?	
3 A Yes.	
4 Q And your article which I'm going to mark as an exhibit w	
5 titled, An Intelligent Person's Guide to Intelligent Design	
6 Theory?	6 Intelligent Design as creationism? 7 MR. GILLEN: Object to form.
7 A Yes.	· · · · · · · · · · · · · · · · · · ·
8 Q Did you come up with that title?	
9 A Yes, yes, yes. 10 MR. ROTHSCHILD: Let's mark that as the next exhib.	and the same of th
MR. ROTHSCHILD: Let's mark that as the next exhibit  (Marked for identification Fuller Deposition Exhibit	11 BY MR. ROTHSCHILD, CONTINUING:
12 No. 5)	12 Q I'm not suggesting it is. In what sense I mean, I
	understand that you certainly are not suggesting that, for
14 Q Was this article published in any other forum before it	
15 was 16 A Yes.	1
1	Ĭ
17 Q part of the book?	17 A That's right, or biblical literalism or anything of that 18 kind.
18 A Yes. In fact, it was originally published in Rhetoric and 19 Public Affairs, which is a peer reviewed journal in, I guess	
20 Texas A and M.	20 A No. So it's not that kind of creationism. 21 Q But clearly, you are indicating that Intelligent Design is
<ul><li>21 Q And do you remember when it was published?</li><li>22 A My vitae would have that, if you'll just give me a momen</li></ul>	
	t 22 creationism in some sense?  23 MR. GILLEN: Object to form.
	THE WITNESS: It is a it does have roots in that. I
}	
	1.25 mean Intelligent Decign is a way of interpreting
25 Q Okay.	25 mean, Intelligent Design is a way of interpreting

creationism, that's true. 1

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- BY MR. ROTHSCHILD, CONTINUING: 2
- Q Okay. And what aspects of -- what do you mean by creationism 3 3
- when you say Intelligent Design does have roots in 4
- creationism or is creationist?
- MR. GILLEN: Object to form.
- THE WITNESS: Well, I mean, the motivation. The
- motivation for putting forward Intelligent Design is from 8
- g people who do think that there is a divine creator. I mean,
- I think historically, that's been the case. And I think it's 10
- probably true of these people. But again, what makes it 11
- 12 science isn't that fact. I mean, again, all kinds of
- religious motivations inform science. I mean, so there's 13
- nothing, in a sense by calling it creationism what I'm doing 14
- 15 is I'm giving something about the motivation of the people
- but not necessarily about the scientific status of what 16
- 17 they're doing. Those are two separate issues. You've got
- 18 context of discovery, context of justification.
- BY MR. ROTHSCHILD, CONTINUING: 19
- Q Okay. And so when you -- when you refer to this Intelligent 20
- 21 Design work as creationist, do you -- do you mean it only in
- 22 the sense that it's motivated by creationist interest?
- 23
- 24 O Okay. And not anything about the content of Intelligent
- 25 Design?

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Q

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- BY MR. ROTHSCHILD, CONTINUING:
- 2 Q Could you turn to page 538 of the article. In the first full paragraph, you say, my tentative approval notwithstanding,
- Meyer's view raises its own questions, one theological -- one

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- 5 theological and the other more strictly scientific. You say,
- 6 is it reasonable or even nonblasphemous to suppose that God
- 7 is the ultimate artificer? Artificer? And you go on to talk
- 8 about Meyer's willingness to subvert the significance of the
- 9 boundary between biological and mechanical forms of
- 10 intelligence being intellectually bracing. And then it goes
  - on. Can you explain what you're getting at here?
- 12 A Well, I mean, in a sense what I'm bringing up is a kind of 13 concern that actually you were bringing up earlier. I see
- 14 you get your ideas from good places. Namely, this business
- 15 of just because we can -- even if we can understand how human
- 16 beings create things, why should we think this is any kind of
- 17 model for understanding how God does things? And let alone
- 18 how life is created. So, yes, that's the -- that is the
- 19 objection I'm raising here.
- 20 O And I think -- I think you understand -- I understand that at
- 21 one level you're raising that, that that's a theological
- 22 problem?
- 23 A Yes.

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- 24 Q That we -- it's blasphemous to suggest that, you know, what
- 25 we know about ourselves and what we can do is in any way a

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- A No, because in fact these people in practice don't actually
- say much about the qualities of the creator, right. I mean,
- 3 in that sense, they don't do a lot of the stuff of
- traditional creationism.
- 5 Q They do suggest that the designer is a supernatural creator,
- correct? 6
- MR. GILLEN: Object to form. 7
- THE WITNESS: Well, I mean, yes. But that's not saying 8
  - a lot, you see. I mean, I just don't think that's saying
- 10 very much. I think --
- BY MR. ROTHSCHILD, CONTINUING: 11
- 12 Q Do you -- go ahead.
- 13 A No, no, no, you go ahead.
- 14 Q Do you consider that an aspect of creationism; that a -- that
- 15 there is a -- that the explanations of life include a
- 16 supernatural creator?
- MR. GILLEN: Object to form. 17
- THE WITNESS: Yes. I think creationism does presuppose 18
- 19 that the creator is separate from the creation, in which case
- 20 it is supernatural. Yes. I mean, so yes. I mean, it's
- 21 attached to a certain kind of cosmology which does involve a
- 22 difference between the creator and the created. So it's
- 23 true, supernatural in that sense. But again, I don't see
- 24 this as operating in a way that actually, in some way
  - visciates the science that's being done.

- model for God; is that right? 1
- 2 A Yes, yes.
- **~**3 Q Okay. Is that -- do you also -- are you also suggesting that 4 that argument is scientifically problematic?
- 5 A Well, I don't seem to say that here, do I? No, no. The 6 scientific side is a different argument, isn't it, right?
- 7 Because there's two arguments here, right? There's a
- 8 theological argument which is what we're talking about, but
- then there is also a scientific issue.
- 10 Q Right, which is separate?
- A Yeah. 11
- 12 Q Do you find the first argument which you focus on
- 13 theologically --
- 14 A Yeah.
- 15 Q -- also to be scientifically problematic? Because I can't
- get over it.
- 16 17 A I -- see, my attitude toward this has changed a bit over the
- 18 last seven years, okay? I mean, I guess I would have said 19 yes back then, that it was problematic. But now I think that
- 20 there's a sense in which, as so much -- I've mentioned this
- 21 earlier. So much of science goes on to be done as computer
- 22 simulations, where the scientists in a sense has to be
  - something an artificer, and that includes when one is trying
- 23
- 24 to model the nature of life and the way in which life
  - develops and so forth, I think it actually becomes easier to

Q What do you mean by inference to the best explanation? A Oh, well, the point is that no other explanation could 9 provide as good an explanation. That there's a kind of, as 10 it were, the kinds of things that you're trying to explain 11 together, I mean, it's a bit like irreducible -- irreducible 12 13

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24 25 complexity is a great example of inference to the best explanation. Namely, if you say that a cell is this thing that hangs together in this very unique kind of fashion, right, then there can -- you know, there is only one explanation that actually can explain the uniqueness of that situation. Right. And the very idea of irreducible complexity trades on that. And so inference to the best explanation is the idea that for any given thing, right, there is always this one ultimate best explanation, right, that you can find from eliminating all the competitors. And -- and -- and the thing about it is, right, inference to the best explanation works if there is a very agreed upon sense of what needs to be explained. And then you say, v

That's true. It doesn't make it wrong. It just doesn't Q

follow.

Q I mean, that's my question. There's no there there, is 10 11

MR. GILLEN: There there, is there? I object to the 12 13 form.

THE WITNESS: No. You have to assume that you've 14 15 eliminated all the rival hypotheses. Not just one. That's 16 correct.

BY MR. ROTHSCHILD, CONTINUING: 17

Q And -- and -- and even if -- I think I would agree with that 18 proposition. But then I'm still troubled by how you 19

wouldn't -- on what basis are you making an affirmative case 20

21 for design by an intelligent designer, or creation by

22 intelligent designer?

A I'm doing it on a different basis, right? Namely, I'm trying 23 24 to expand the possible explanations. I'm not arguing it the ,25

way Behe's arguing it.

43 (Pages 166 to 169)

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Case 4:04-cv-02688-JEJ
    Q No, no, I understand. But what I'm saying, you -- you -- you --
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      made a point which I think I agree with, which is, you know
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      Behe's, you know, effectively elim -- saying he's eliminated
3
      one possibility, but there might be other hypotheses, right?
4
    A Yes. Demb -- Dembski has a similar problem, actually.
5
    Q Okay. Okay. So both of them have this problem, right?
6
        Uh-huh.
8
    O Yes?
9
    Α
       Yes, yes.
    Q Okay. But then I -- even granted your point, which I do, I m10
10
       still troubled by the idea that even if you could eliminate
11
       all the, for example, natural hypotheses that have been
12
13
       asserted, one could make a positive case for action by an
       intelligent designer. And I'm trying to understand how tha
14
       follows, which I -- I -- I think is the conclusory
15
16
       proposition?
    A Yes. I mean, yes. It doesn't follow. You're absolutely
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       right. But typically what happens in these kinds of
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19
       arguments, right, is that the Intelligent Design person, as
       the person who's always facing evolutionary challenge, has 20
20
       make the Intelligent Design argument more specified, right?
21
       So what happens then is that the Intelligent Design argument
22
       becomes more precise. So I think what -- I don't see it as
23
       an inherent problem. It just means that there's -- there's
24
       never going to be a decisive moment where the Intelligent
25
       Design argument wins by default by seeing off evolutionary
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 2
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by denying what -- I mean, if you got -- if you got random mutation and natural selection as one hypotheses, right, ther the other -- you know, the other hypothesis could be one where there is some kind of plan. And since the cell had you know, the cell is designed the way it is so that it could survive many different kinds of changes in the natural selection environment. That's not -- that's not an incomprehensible notion, right? I mean, it's just to make that specific so you could actually test whether it's, you know, it's -- it's true in a certain situation, I think that's the problem. It's not really specified enough. But, you know, I mean -- let me make a follow up point to this. Evolutionists and Intelligent Design people can go about criticizing each other and that's perfectly fine and that's very appropriate in science. But there is also -- you know, but as it were, the -- the relative scientific status of the theories aren't just determined by those clashes and what happens in those clashes. But it's also determined by, as it were, how they take it home to develop their own theories independently. So if we take seriously the idea that Intelligent Design theory is in a way trying to scope out the phenomena of reality somewhat differently than the evolutionists are, so it includes cosmological issues and maybe supernatural issues, even, in a way in which evolution rules out of court, right, then what you're also looking at

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1 challenges. That's all it means. 3 Q But I --4 It doesn't mean it ever -- at no point does it ever get shows 4 Α to be wrong. It -- what -- it shows it hasn't eliminated 6

5 6 alternatives. And never would?

A That's entirely --

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MR. GILLEN: Object to form.

THE WITNESS: I mean, that's entirely possible. And that's why some people object to the idea of inference to the :11 best explanation as being a method in science, wherein a sense, right, the question is always open as long as there are alternative hypotheses available. People who believe in the inference to the best explanation do believe that all the opponents are eventually seen off.

BY MR. ROTHSCHILD, CONTINUING: 17

Q All right. And -- and -- and -- what -- and I -- but I --18 19 and I'm still trying to get to the point, we're talking about inference to the best explanation. But I don't see how 20

Intelligent Design is unexplanation at -- what the -- what 21 22 the affirmative case is for Intelligent Design even being one

23 of the alternatives?

A Well, I'm not sure. I mean, it seems to me that the 24 possibility of space for Intelligent Design is opened up just 25 25

is not how -- not only how these two theories relate to each other, but also how they develop in light of the criticism in their own terms. Do they go to the places they're trying to go to with regard to explanation and so forth? And so when somebody like Meyer, let's say, wants to have this kind of covering information theory as the metatheory of Intelligent Design, well, that's nothing -- you know, that's -- you know, evolutionists think that's just weird, right? But then he's trying to do something different. He's not trying to do what the evolutionists are doing. So while they do confict over certain areas like how do you explain the cell's stability, the overall goals of the research program are somewhat different, and so there are different kinds of concerns that they will then want to take forward when they develop their theories.

Q Go to the next page of the article, page 540. You invoke the well-known and highly regarded Fuller's Fairness Rule, which is if you appeal to metaphysical explanations at all, you must permit a plurality of them. And you also -- you go on to, say virtually any metaphysical hypothesis can be maintained in the face of any negative evidence. Explain what's going on here.

A Okay. Well, this is, in a sense, kind of the -- it's in -it's in a way trying to find a useful place for metaphysics and science. Okay. And the idea here being that when

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44 (Pages 170 to 173)

by themselves, and of course they don't have all the skills

to do it. This is why they would need a school of people to

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Q And I'm not sure what that is besides the fact that evolution

or natural selection isn't an adequate explanation?

24

Q Uh-huh. You refer, I think at footnote 11 to a book by --

2 A Oh, veah.

O -- Thomas Woodward, Doubts About Darwin.

Yes.

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0 What is that book about? 5

A Okay. This was a guy's Ph.D. thesis originally. And what t 6 6

is, he basically followed various people around who've beer

8 debating the Intelligent Design/Darwin issue publicly. You

know, so when Phillip Johnson and Stephen J. Gould were

10 debating, I mean, he'd follow all these people across the

country. And he's basically charting sort of the development 11

and the arguments that are taking place. And one of the 12

points that he makes is that in fact Intelligent Design 13

people kind of have evolved, you might say, as they've 14

interacted with scientists and they've made more 15

sophisticated arguments and so forth. And so there's been

kind of learning curve, you might say, that now makes 17

Intelligent Design a much more sophisticated theory through

19 the interaction with the scientists. I mean, it's the kind

20 of thing, you know, the sort of thing that John Angus

Campbell kind of says would happen, he sort of document 21

And as a participant observer, which means that he's kind 22

there in the meetings, asks some questions, you know, and

24 then writes about it.

Q Do you have any relationship with Mr. Woodward? 25

A No, I have not.

O Why not?

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2 5

3 A Well, I don't -- I guess I just -- I haven't thought I was in

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a particularly persuasive position to convince the natural

5 scientists about teaching anything other than what they

already do. I mean, so it just didn't seem to fall to me to do that. I guess that would be the main reason. Also I do

think there is this issue we keep on going back to about

Q what's the appropriate faculty for discussing these matters.

10 And that in the case of some of these things, that a

mathematics or statistics department might be better than a

chemistry or biology department for a lot of this stuff. So 12

13 I think there's a kind of open question about where exactly 14

would you want to be placing the study of this thing.

15 O Same question applies to the high school level? 16

A Well, the high school level, the science courses are much

more generic, aren't they? I mean, so -- and also I think 17 18

there's a different purpose as well, because at the high

19 school level, there is a sense in which you're trying to seed 20 the next generation of scientists potentially. I mean, that

was something that even your guy, Alters, brought out. And t21

22 that it becomes important then to think about the different

23 scientific perspectives in light of that, whereas by the time

24 you get to university, people are training to be

professionals already in a given science. So they're sort of

A Do I have any relationship with him? I did teach this book

in -- at UCLA when it was still in its proof form. I mean, I

3 know -- you know, and I have been in contact with him

4 actually because he does derive some kind of methodological

5 inspiration from some of my writings in the appendix of the

6 book. But I've never taught the man, I've never met him

7 personally. By the way, the context I would say where --8 where he is drawing some inspiration from me relates to the

Q questions that you were raising earlier about the tributary

10 delta stuff, about the idea of broadening out the scientific base so that larger numbers of people can have access to

12 stuff. That's the kind of thing that he found intitially

attractive, which comes up in this book mine on Thomas Kuhn. 13

14 Q I think you said very early in our discussion that

15 Intelligent Design is not taught as part of the biology

courses at Warwick University? 16

17 A That's correct.

O Okay. And --18

A But we do teach, you know, in this philosophy master's degree 19

20 thing, we do teach it. And so --

Q Okay. But I'm correct that it's not part of any of the 21

22 natural sciences curriculum?

23 A No, no.

Q Have you ever advocated at the university that Intelligent 24

25 Design be taught as part of the natural sciences curriculum?

already engaged in a kind of more technical sort of thing. 1

And that's -- it's harder to insitutionalize at that level.

I think it actually would be easier to institutionalize at 3

4 the high school level.

5 Wouldn't it make sense at the undergraduate level, to seed

6 the next generation of scientists, when the students are --

7 A Well, okay.

8 Q -- sophisticated?

9 A My -- I should explain something. In Britain, you come in

10 already specialized. I mean, you see, in America, it's quite

11 common for the first year or two of the undergraduate level

12 to in a sense be searching around for a major. And so, yes,

13 in that context, I think that's a -- that's actually right.

14 So I take your point there. But I was thinking about the

15 British context, right, where you sort of start

16 specializing -- you get admitted into a university in a

17 subject. And that's why the degree program is a three year

rather than a four year program.

19 Q Could you turn to page 11 of your report.

20 Α Yeah.

18

21 Q And at the bottom paragraph, you talk -- you talk about most

22 philosophers having resisted the charms of naturalism.

23 A Yes.

24 Q And that's -- I take it you're distinguishing them from

25 scientists who, to a large extent, have succumbed to the